# **Technology Services**

# **MISSION STATEMENT**

The mission of the Department of Technology Services is to enable the Montgomery County government to use Information Technology where it adds the most value; to enable our employees to be the best at serving their customers; to deliver information and services to citizens at work, at home, and in the community; and to increase the productivity of government.

# **BUDGET OVERVIEW**

The total recommended FY06 Operating Budget for the Department of Technology Services is \$27,593,820, an increase of \$2,021,130 or 7.9 percent from the FY05 Approved Budget of \$25,572,690. Personnel Costs comprise 56.6 percent of the budget for 152 full-time positions and two part-time positions for 147.0 workyears. Operating Expenses and Capital Outlay account for the remaining 43.4 percent of the FY06 budget.

Not included in the above recommendation is a total of \$1,207,200 and 2.3 workyears that are charged to Cable Television. The funding and workyears for this item are included in the receiving department's budget.

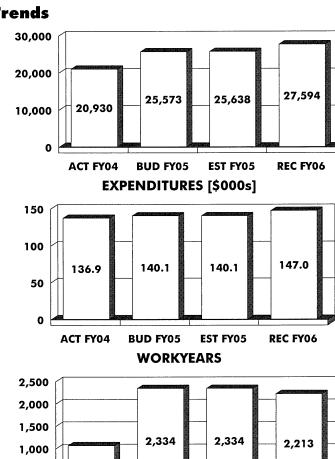
In addition, this department's Capital Improvements Program (CIP) requires Current Revenue funding. Please see Section 6 for information related to the CIP.

## **HIGHLIGHTS**

- Continued support for the County's enterprise IT system for software and hardware maintenance, and software licenses \$169,080.
- Provide one-time funding for a server replacement study.
- Enhance staffing in the Enterprise Infrastructure Division (EID) to help improve security Countywide.
- Expand the Interactive Voice Response (IVR) system platform.
- Implement a public WiFi demonstration project within a ten block area of downtown Silver Spring for six months.
- Continue the County's four-year personal computer replacement cycle to replace 2,000 computers in FY06.
- Continue support for development of the Integrated Justice Information System (IJIS), which will provide important information about criminal activities to appropriate County, State, and Federal public agencies \$989,640. \$707,000 will be allocated to the IJIS CIP project.

| Totals                                  | 27,593,820   | 147.0 |
|---|--------------|-------|
| Administration                          | 2,178,610    | 13.4  |
| Radio Communications                    | 3,138,780    | 9.2   |
| Telecommunications Services             | 1,745,640    | 12.2  |
| Enterprise Security/FiberNet WAN        | 1,356,580    | 9.0   |
| Host Operations                         | 2,281,750    | 18.7  |
| Enterprise Services                     | 10,511,840   | 35.2  |
| Geographic Information Systems (GIS)    | 1,327,010    | 11.5  |
| Enterprise System Services              | 1,774,100    | 12.0  |
| Project Management and Requirements     | 1,996,520    | 16.0  |
| Application Development and Integration | 1,282,990    | 9.8   |
| Program Summary                         | Expenditures | WYs   |
|   |              |       |





**BUD FY05** 

**RELATED REVENUES [\$000s]** 

EST FY05

**REC FY06** 

1,059

**ACT FY04** 

500

0

**Technology Services** General Government 39-1

#### Productivity Enhancements

#### **Online Financial Disclosure Enhancements**

 Decrease employee time spent on accessing employee services with SSO (single sign on) and online access.

#### **Enterprise Services**

- Create blocking list on the County e-mail gateways, which has mitigated over 1.1 million spam e-mail messages.
- Implementation of the multi-level anti-virus system has enabled the County to intercept over 900,000 infected and/or potentially harmful e-mail messages and has provided the ability to scan 100 million e-mail messages in which viruses were removed from 18,000 messages.

#### **Enterprise Applications**

The following projects have been completed by the Applications Development Team:

- The ePayment application allows the Commission for Women (CFW) to provide online registration and payment services for professional training seminars and classes. Over 50 percent of the Commission for Women's registration and payments are made online.
- The Language Bank provides the Volunteer Center with a secure and cost effective method to use web-based applications to enable the County and registered non-profit agencies to identify and register volunteers for interpreting and translating foreign languages.

#### FiberNet/WAN

 Reduce costs to deploy site electronics from an average cost of \$50,000 to less than \$3,000 per site by deploying Ethernet technology in lieu of ATM technology

#### **Telecommunications**

 Reduce telephone directory costs from \$30,000 annually to \$10,000 by printing a limited number of directories and providing a complete directory on the County's website. The website version is more current since it is updated weekly as opposed to annually.

# PROGRAM CONTACTS

Contact Helen Ni of the Department of Technology Services at 240.777.2807 or Jennifer R. Bryant of the Office of Management and Budget at 240.777.2761 for more information regarding this department's operating budget.

# PROGRAM DESCRIPTIONS

# **Application Development and Integration**

The Application Development and Integration Program is responsible for implementation of new web-based information technology systems in the County. The Program assesses business and technical requirements, translates requirements into technology system solutions, and defines standard process and software development methodology to deliver IT systems and solutions. This program supports the County's electronic government initiative to include web site management. Electronic government seeks to provide cost-effective services at greater convenience to citizens through the use of modern communications technology like the Internet.

#### FY06 Recommended Changes

|                     | Expenditures | WYs |  |
|---------------------|--------------|-----|--|
| FY05 Approved       | 1,167,080    | 7.8 |  |
| FY06 CE Recommended | 1,282,990    | 9.8 |  |

# **Project Management and Requirements**

The Project Management and Requirements Program serves as the first step in the successful implementation of new information technology systems in the County. The program defines business requirements and translates those into information technology systems requirements and specifications, identifies opportunities to leverage technology and integrates new technology into existing operating systems. This program works across departments to promote digitization of critical business processes, improved level of systems integration and greater information accessibility and availability. The program also coordinates the implementation of the new Records Management System (RMS), Integrated Justice Information System (IJIS), and plan for a future Enterprise Resource Planning (ERP) System.

#### FY06 Recommended Changes

|                     | Expenditures | WYs  |  |
|---------------------|--------------|------|--|
| FY05 Approved       | 1,383,370    | 14.5 |  |
| FY06 CE Recommended | 1,996,520    | 16.0 |  |

# **Enterprise System Services**

The Enterprise System Services Program is responsible for supporting the enterprise software applications which are used throughout the County government (e.g., FAMIS/ADPICS). This program is responsible for applications maintenance, upgrade, phase out, and replacement. It integrates custom-coded programs, commercial software packages and contractual services to meet the functional requirements of customer departments. The program also maintains existing enterprise information systems by making program and parameter modifications to correct errors or accommodate changing legal, and functional requirements. regulatory, Additionally, applications are adapted to conform to changes in the County's hardware and software environment.

## FY06 Recommended Changes

|                     | <b>Expenditures</b> | WYs  |
|---------------------|---------------------|------|
| FY05 Approved       | 1,492,200           | 11.0 |
| FY06 CE Recommended | 1,774,100           | 12.0 |

## Geographic Information Systems (GIS)

The Geographic Information Systems program designs and implements GIS applications for County departments, maintains the accuracy and currency of the Montgomery County

Geographic Base File (GBF/DIME) and participates in the development and maintenance of the planimetric and property databases.

## FY06 Recommended Changes

|                     | Expenditures | WYs  |  |
|---------------------|--------------|------|--|
| FY05 Approved       | 1,254,190    | 11.5 |  |
| FY06 CE Recommended | 1,327,010    | 11.5 |  |

# **Enterprise Services**

The Enterprise Services Division (ESD) provides services to departments and employees through effective management of the County computing infrastructure. The division manages enterprise-wide systems including: enterprise messaging system, enterprise directory system, enterprise file and print system, mainframe system, and enterprise servers (web, application, database). ESD manages and provides support for the Public Safety Data System. ESD also operates the Information Technology help desk, manages the County government's PC harware and software inventory, and provides support directly to departments and employees through the Desktop Computer Modernization program.

## FY06 Recommended Changes

|                     | Expenditures | WYs  |  |
|---------------------|--------------|------|--|
| FY05 Approved       | 10,170,890   | 34.2 |  |
| FY06 CE Recommended | 10,511,840   | 35.2 |  |

# **Host Operations**

The Host Operations program operates the County's central data processing facility, processes all job requests, and offers server monitoring and backup services. The program provides 24-hour-a-day service supporting the mainframe, network control center equipment, the Library Department materials circulation system, the Finance Department tax receivable system, timesheet data entry, and central file and print servers. The Data Control function provides the processing and production of all mainframe job requests, as well as the preparation and reconciliation of computer-printed output for all user departments. This program also performs all centralized data entry functions and verifies all keypunch work through a combination of direct and contractual services.

## FY06 Recommended Changes

|                     | Expenditures | WYs  |
|---------------------|--------------|------|
| FY05 Approved       | 2,220,700    | 18.7 |
| FY06 CE Recommended | 2,281,750    | 18.7 |

# **Enterprise Security/FiberNet WAN**

The Enterprise Security program provides data security consulting, policies, and procedures to the County government. The program monitors and disseminates anti-virus and other security alerts and information, performs security assessment and mitigation, and designs security solutions for central and decentralized systems. This program is responsible for identifying and then monitoring and managing the tools required to protect the County from data security threats. Some costs associated with this program are charged to the Cable Fund in

accordance with the cable franchise provision to support installation, construction, operations, and maintenance of the County's FiberNet and associated network equipment.

#### FY06 Recommended Changes

□ Enhance staffing to help improve security Countywide.
□ Implement a public WiFi demonstration project within a ten block area of downtown Silver Spring for six months.

|                     | Expenditures | WYs |
|---------------------|--------------|-----|
| FY05 Approved       | 1,064,020    | 7.6 |
| FY06 CE Recommended | 1,356,580    | 9.0 |

## **Telecommunications Services**

The Telecommunications Services program includes planning, designing, engineering, acquiring, installing, repairing, relocating, and modifying telecommunications equipment. The County owns and operates its own digital telephone system for the larger government facilities and electronic key systems at smaller County sites. This program also includes management of the County's voice mail system.

### FY06 Recommended Changes

Expand the Interactive Voice Response (IVR) system platform.

|                     | Expenditures | WYs  |  |
|---------------------|--------------|------|--|
| FY05 Approved       | 1,657,690    | 12.2 |  |
| FY06 CE Recommended | 1,745,640    | 12.2 |  |

# **Radio Communications**

The Radio Communications program is responsible for planning, designing, engineering, acquiring, maintaining, installing, and repairing the County's complex radio and mobile communications systems which predominantly support public safety agencies.

#### FY06 Recommended Changes

|                     | Expenditures | WYs |
|---------------------|--------------|-----|
| FY05 Approved       | 3,087,280    | 9.2 |
| FY06 CE Recommended | 3,138,780    | 9.2 |

#### **Administration**

The Administration program is responsible for strategic planning, allocation of resources, setting policy, and guiding all programs of the Department and County government Information Technology initiatives. Centralized administrative support functions are performed in the areas of contracting, budgeting, personnel, procurement, and facilities management.

# FY06 Recommended Changes

|                     | Expenditures | WYs  |
|---------------------|--------------|------|
| FY05 Approved       | 2,075,270    | 13.4 |
| FY06 CE Recommended | 2,178,610    | 13.4 |

# **BUDGET SUMMARY**

|  | Actual<br>FY04 | Budget<br>FY05 | Estimated<br>FY05 | Recommended<br>FY06 | % Chg<br>Bud/Rec                        |
|--|----------------|----------------|-------------------|---------------------|---|
| COUNTY GENERAL FUND                    |                |                |                   |                     |   |
| EXPENDITURES                           |                |                |                   |                     |   |
| Salaries and Wages                     | 10,123,264     | 10,952,290     | 10,795,760        | 12,058,470          | 10.1%                                   |
| Employee Benefits                      | 2,565,811      | 3,058,390      | 2,945,700         | 3,557,440           | 16.3%                                   |
| County General Fund Personnel Costs    | 12,689,075     | 14,010,680     | 13,741,460        | 15,615,910          | 11.5%                                   |
| Operating Expenses                     | 8,179,988      | 11,409,380     | 11,744,380        | 11,825,280          | 3.6%                                    |
| Capital Outlay                         | 60,995         | 152,630        | 152,550           | 152,630             | _                                       |
| County General Fund Expenditures       | 20,930,058     | 25,572,690     | 25,638,390        | 27,593,820          | <b>7.9</b> %                            |
| PERSONNEL                              |                |                |                   |                     |   |
| Full-Time                              | 140            | 147            | 147               | 152                 | 3.4%                                    |
| Part-Time                              | 2              | 2              | 2                 | 2                   |   |
| Workyears                              | 136.9          | 140.1          | 140.1             | 147.0               | 4.9%                                    |
| REVENUES                               |                |                |                   |                     |   |
| Sundry/Miscellaneous                   | 630            | 0              | 0                 | 0                   | *************************************** |
| Public Pay Phone Commissions - Other   | 40,133         | 42,000         | 42,000            | 42,000              |   |
| Emergency 911 - DTS                    | 1,000,000      | 2,170,960      | 2,170,960         | 2,170,960           |   |
| Telecommunication                      | 18,605         | 0              | 0                 | 0                   | _                                       |
| Intergovernmental Reimbursements:Other | 0              | 120,790        | 120,790           | 0                   |   |
| County General Fund Revenues           | 1,059,368      | 2,333,750      | 2,333,750         | 2,212,960           | -5.2%                                   |

# **FY06 RECOMMENDED CHANGES CROSSWALK**

|   | Expenditures | WY   |
|---|--------------|------|
| OUNTY GENERAL FUND  |              |      |
| FY05 ORIGINAL APPROPRIATION   | 25,572,690   | 140. |
| Changes (with service impacts)  |              |      |
| Enhance: Enterprise: Interactive Voice Response (IVR) platform expansion [Telecommunications Services]                                | 230,050      | 0    |
| Enhance: Enterprise: Public Wireless Fidelity (WiFi) installation [Enterprise Security/FiberNet WAN]                                  | 95,000       | 0    |
| Enhance: Sr. Technology Specialist position - Security Team [Enterprise Security/FiberNet WAN]  | 86,060       | C    |
| Other Adjustments (with no service impacts)   |              |      |
| Increase Cost: FY06 Compensation  | 485,560      | (    |
| Increase Cost: Annualization of FY05 Personnel Costs  | 272,080      | (    |
| Shift: Transfer of system maintenance costs from Finance to DTS for E-Timesheet Project [Enterprise                                   | 232,090      | (    |
| System Services   |              |      |
| Increase Cost: FY06 Group Insurance Rate Adjustments  | 185,110      | (    |
| Increase Cost: Enterprise Licenses and Maintenance [Enterprise Services]  | 169,080      | (    |
| Increase Cost: FY06 Retirement Rate Adjustments   | 140,140      | (    |
| Increase Cost: Integrated Justice Information System (IJIS) Backbone: Production system maintenance                                   | 130,000      | (    |
| Increase Cost: Conversion of term Sr. Information Technology Specialist position to permanent - IJIS                                  | 113,060      |      |
| Project [Project Management and Requirements]   | •            |      |
| Increase Cost: IJIS Maryland Information Law Enforcement System (MILES)/National Criminal Information                                 | 100,800      | (    |
| Center (NCIC) Access Changes - \$7.00 per user to \$9.00 per user monthly   | •            |      |
| Increase Cost: Server replacement study [Enterprise Services]   | 100,000      | (    |
| Shift: Technology Specialist II position [Enterprise System Services]   | 66,580       |      |
| Shift: Technology Specialist I position [Enterprise System Services]  | 58,420       |      |
| Increase Cost: IJIS Project Office Lease  | 51,840       | (    |
| Increase Cost: Records Management   | 15,880       | (    |
| Increase Cost: Motor Pool   | 4,990        | (    |
| Increase Cost: Miscellaneous workyear adjustment to DTS/Cable TV FiberNet chargeback [Enterprise Security/FiberNet WAN]               | 0            | -(   |
| Shift: Sr. Technology Specialist position offset by a decrease in operating funds (97,290). [Enterprise Security/FiberNet WAN]        | 0            | 1    |
| Shift: Technology Specialist I position offset by a decrease in operating funds (67,490). [Enterprise System Services]                | 0            | •    |
| Shift: Technology Specialist II position offset by a decrease in operating funds (76,840). [Application Development and Integration]  | 0            | 1    |
| Shift: Technology Specialist III position offset by a decrease in operating funds (87,660). [Application Development and Integration] | 0            |      |
| Shift: Abolish Sr. Technology Specialist position [Enterprise System Services]  | -125,060     | _1   |

|   | Expenditures | WYs   |
|---|--------------|-------|
| Decrease Cost: Elimination of one-time items approved in FY05 [Telecommunications Services] | -390,550     | 0.0   |
| FY06 RECOMMENDATION:  | 27,593,820   | 147.0 |

# **FUTURE FISCAL IMPACTS**

|  | CE REC.          |                 | (\$000's)        |               |                |           |
|--|------------------|-----------------|------------------|---------------|----------------|-----------|
| Title  | FY06             | FY07            | FY08             | FY09          | FY10           | FY11      |
| his table is intended to present significant future fiscal i   | mpacts of the    | department'     | 's programs.     |               |                |           |
|  |                  |                 |                  |               |                |           |
| COUNTY GENERAL FUND  |                  |                 |                  |               |                |           |
| Expenditures   |                  |                 |                  |               |                |           |
| FY06 Recommended   | 27,594           | 27,594          | 27,594           | 27,594        | 27,594         | 27,594    |
| No inflation or compensation change is included in outyear   | projections.     |                 |                  |               |                |           |
| Annualization of Positions Recommended in FY06   | 0                | 20              | 20               | 20            | 20             | 20        |
| New positions in the FY06 budget are generally assumed to amounts reflect annualization of these positions in the output |                  | st two months   | s after the fisc | al year begin | s. Therefore,  | the above |
| Elimination of One-Time Items Recommended in FY06  | 0                | -344            | -344             | -344          | -344           | -344      |
| Items recommended for one-time funding in FY06, includin   | g Interactive Vo | ice Response    | (IVR) Infrastru  | cture expansi | ion (\$230,050 | ), Server |
| Replacement Study (\$100,000), Records Management (\$7,9   | 40), and purch   | ise of furnitur | e and a desk     | top computer  | for the Sr. IT |           |
| Specialist position - Security Team (\$6,000), will be elimina   | ted from the bas | se in the outy  | ears.            |               |                |           |
| Labor Contracts  | 0                | 632             | 745              | 745           | 745            | 745       |
| These figures represent the annualization of FY06 incremer compensation (e.g., general wage adjustment and service i     |                  | •               | •                |               |                |           |
| Subtotal Expenditures  | 27,594           | 27,902          | 28,015           | 28,015        | 28,015         | 28,015    |

# **TECHNOLOGY SERVICES**

#### PROGRAM:

Desktop Computer Modernization (DCM)

PROGRAM ELEMENT:

#### PROGRAM MISSION:

To provide up-to-date desktop PCs and software and improved levels of service (acquisition, management, Help Desk, and maintenance) to all departments at lower cost

#### **COMMUNITY OUTCOMES SUPPORTED:**

- Enable County employees to be the best at serving their customers
- Deliver information and services to citizens at work, at home, and in the community
- · Increase the productivity of government

| PROGRAM MEASURES   | FY02<br>ACTUAL | FY03<br>ACTUAL | FY04<br>ACTUAL | FY05<br>BUDGET  | FY06<br>CE REC  |
|--|----------------|----------------|----------------|-----------------|-----------------|
| Outcomes/Results:  |                |                |                |                 |                 |
| Average cost saving per PC purchased via DCM (\$)              | 321            | 316            | 280            | 300             | 300             |
| Average age of PCs (years)                                     | 2.1            | 2.3            | 3.0            | 2.5             | 2.4             |
| Service Quality:   |                |                |                |                 |                 |
| Average Help Desk wait time (seconds)                          | 7.5            | 6.3            | 2.3            | <sup>b</sup> 90 | <sup>b</sup> 90 |
| Percentage of Help Desk calls resolved during initial call     | 96             | 96             | 95             | 80              | 80              |
| Average time to repair a PC (hours)                            | 4.3            | 3.8            | 2.1            | c8.0            | c8.0            |
| Efficiency:  |                |                |                |                 |                 |
| Cost per PC covered under services (\$) <sup>d</sup>           | 410            | 410            | 410            | 431             | 368             |
| Cost per service call (including installations) (\$)           | 205            | 147            | 134            | 148             | 135             |
| Workload/Outputs:  |                |                |                |                 |                 |
| PCs replaced   | 257            | 1,804          | 115            | 2,250           | 2,000           |
| PCs covered under services                                     | 6,383          | 6,853          | 6,947          | 7,800           | 7,900           |
| Service calls performed (including installations) <sup>a</sup> | 13,389         | 20,329         | 22,868         | 22,000          | 24,000          |
| Inputs:  |                |                |                |                 |                 |
| Expenditures - purchases (\$000)                               | 1,110          | 2,345          | 531            | 2,860           | 2,962           |
| Expenditures - services (\$000)                                | 2,751          | 2,988          | 3,066          | 3,259           | 3,234           |
| Expenditures - management (\$000)                              | <u>520</u>     | <u>717</u>     | <u>634</u>     | <u>674</u>      | <u>661</u>      |
| TOTAL expenditures (\$000) <sup>e</sup>                        | 4,381          | 6,050          | 4,231          | 6,793           | 6,857           |
| Workyears <sup>e</sup>   | 7.0            | 7.0            | 7.0            | 7.0             | 7.0             |

#### Notes:

#### **EXPLANATION:**

The Desktop Computer Modernization (DCM) program was developed by Montgomery County's Department of Technology Services based on a best practices approach to maintaining a modern, cost-effective desktop computing environment in the County. The program, which began in FY99, is designed to lower the total cost of ownership through standardization, asset management, Help Desk support, and maintenance services. The DCM program includes centralized management and maintenance of the County's installed base of nearly 7,000 desktop and laptop computers (as of FY04) and annual replacement for one-fourth of those PCs. The program is designed to improve the efficiency and effectiveness of County employees by ensuring that they have the appropriate, state of-the-art computing resources they need to do their job. County DCM staff are responsible for planning, coordination, and quality assurance, and for coordinating and monitoring PC installation, moves, adds, changes, the Help Desk, and maintenance services provided by a contractor.

**PROGRAM PARTNERS IN SUPPORT OF OUTCOMES:** Office of Human Resources (training), user departments (planning, implementation).

MAJOR RELATED PLANS AND GUIDELINES: Horizon 21 Information Technology Strategic Plan: 1998, 1999; Telecommunications Audit Action Plan, 1998; DCM Program Best Practices and Financial Analysis, 1997.

<sup>&</sup>lt;sup>a</sup>The number of service calls performed has continued to increase over the years as more and more departments utilize the PC Help Desk

<sup>&</sup>lt;sup>b</sup>90 seconds is the contractual level of service; the actual results have been well below the contractual requirement.

<sup>&</sup>lt;sup>c</sup>Eight hours is the contract level of service; the actual results have been well below the contractual requirement.

<sup>&</sup>lt;sup>d</sup>The cost per PC covered under services is a fixed contracted amount per PC, with some variability depending on the type and quality of service.

<sup>&</sup>lt;sup>e</sup>From FY02 through FY04, DCM program expenditures and staff have consisted of two contractors and five in-house positions from the Enterprise Services Program. In FY05, one contractor will be converted to a County merit position. Thus, the expenditures and workyears for FY05 include one contractor and six in-house positions from the Enterprise Services Program.

# **TECHNOLOGY SERVICES**

#### PROGRAM:

Geographic Information Systems

#### PROGRAM ELEMENT:

Custom Maps and Data Reports Generation

## PROGRAM MISSION:

To provide timely and accurate maps and data reports that enable informed decision-making on geographically-based issues by customer departments

## **COMMUNITY OUTCOMES SUPPORTED:**

- Enable County employees to be the best at serving their customers
- Deliver information and services to citizens at work, at home, and in the community
- Increase the productivity of government

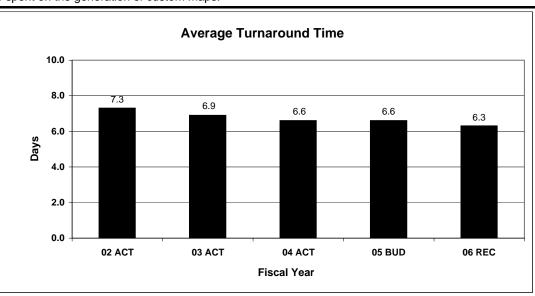
| PROGRAM MEASURES   | FY02<br>ACTUAL | FY03<br>ACTUAL | FY04<br>ACTUAL | FY05<br>BUDGET | FY06<br>CE REC |
|--|----------------|----------------|----------------|----------------|----------------|
| Outcomes/Results:  |                |                |                |                |                |
| Cost avoidance for land surveys - Department of Public     | 235            | 250            | 248            | 250            | 250            |
| Works and Transportation (\$000)                           |                |                |                |                |                |
| Cost savings on election maps - Board of Elections (\$000) | 35             | 35             | 34             | 35             | 35             |
| Cost savings on State's Attorney maps (\$000)              | 15             | 15             | 14             | 15             | 15             |
| Service Quality:   |                |                |                |                |                |
| Average turnaround time for production of customized       | 7.3            | 6.9            | 6.6            | 6.6            | 6.3            |
| maps (days)  |                |                |                |                |                |
| Efficiency:  |                |                |                |                |                |
| Average cost per map (\$)                                  | 90             | 85             | 106            | 106            | 104            |
| Workload/Outputs:  |                |                |                |                |                |
| Number of custom maps provided                             | 1,450          | 1,604          | 1,405          | 1,500          | 1,680          |
| Number of database layers updated                          | 8              | 8              | 9              | 9              | 10             |
| Inputs:  |                |                |                |                |                |
| Workyears <sup>a</sup>                                     | 2.4            | 2.3            | 2.3            | 2.3            | 2.3            |
| Expenditures - personnel (\$000)                           | 131            | 137            | 149            | 159            | 174            |
| Notes:   |                |                |                |                |                |

## Notes:

<sup>a</sup>Workyears relate to staff time spent on the generation of custom maps.

# **EXPLANATION:**

The County government has made increasing use of customized Geographic Information System (GIS) maps. While the average cost per map climbed nearly 18% between FY02 and FY04, the turnaround time decreased by almost 10%.



PROGRAM PARTNERS IN SUPPORT OF OUTCOMES: Maryland-National Capital Park and Planning Commission, Washington Suburban Sanitary Commission, Montgomery County Public Schools, Department of Public Works and Transportation, Department of Permitting Services, user departments and agencies, cities of Gaithersburg and Rockville, Metropolitan Washington Council of Governments.

**MAJOR RELATED PLANS AND GUIDELINES:** Horizon 21 Information Technology Strategic Plan, July 1998, 1999; Montgomery County GIS Plan, June 1996.